



CAMBRIDGE, MASS.
TUESDAY, SEPT. 27, 1949
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VOL. LXIX NO. 33

THE OFFICIAL NEWSPAPER
OF THE M.I.T. UNDERGRADUATES

TOM TEKMAN: OUR ANSWER TO PHOS



12 MEV Generator, Delayed By Strike, To Surpass Cyclotron

Construction of the Institute's new high voltage generator came to a dead stop last May. A steel mill strike delayed delivery of a large high pressure tank which must be installed before work can be resumed.

When the twelve million electron volt generator is finished, it will be capable of delivering a steady stream of positive ions and electrons with a potential of three to twelve million electron volts.

Diflers from Cyclotron

A generator of this sort differs from a cyclotron in that the energy of the accelerated particles is very constant and controllable. The energy of particles emanating from a cyclotron is spread over a considerable range.

Delivery of the necessary pressure

vessel or tank is expected in about one month. Most of the associated apparatus has been completed or will be in the near future. At this time it is believed that the first voltage tests will be run in the spring and that high energy particles will be available by next fall.

Application to Medicine

The most important application of the generator will be in precision nuclear research using positively charged particles such as protons and deuterons. But the machine is also capable of accelerating electrons for important applications in biological and medical research.

The U. S. Government is now constructing a 12 M.E.V. generator similar to Technology's at the Atomic Energy Research Plant at Los Alamos, N. M.

'50 Makes Plans For Picnic Outing

"Columbang" is Name Of Columbus Day Event

The class of 1950, which last year sponsored the Mug Lift, is now making plans for "Columbang," a class outing and picnic to be held Columbus Day, Wednesday, October 12. The affair, to which seniors are encouraged to bring dates, will be held at a nearby lakeside recreation park.

Chartered busses will be available for those who need transportation. The day's program includes athletic events and games. Beer, soft drinks, and picnic lunches will be served during the afternoon.

Ticket Sale Monday

Tom McLeer, vice president, and Joe Gottlieb, Institute Committee representative of the class of '50, are co-chairmen of "Columbang." It has been announced that tickets will go on sale Monday, October 3, in the lobby of Building 10.

Due to the size of the picnic grounds and the desirability of a small affair, there will be tickets for only a small proportion of the class. These will be available on a first come, first serve basis.

Members of the committee are Bob Mann, Jack Weaver, Jim Baker, Jack Senese, Don Rose, and Dan McGuiness.

Athletic Events No Longer Free To All, Non-Students To Pay; Registration Card Acts As Pass

Fire Roars But Loss Is Slight

Westgate Once Again Scene of Conflagration

Fire once again ravaged crowded Westgate late Saturday night. Flames were detected spouting from duplex cottage 40 about 11:20 p.m. and Cambridge firemen were immediately alerted. Their prompt action prevented the blaze from reaching the disastrous proportions of the famous '46 Westgate West conflagration, although moderate damage was caused.

Nathan Cook, occupant of the dwelling, reported that the fire probably originated from a portable electric cord. Woodwork, curtains, chairs, and a rug were consumed before the blaze could be brought under control.

The fire that took place on October 31, 1946, gutted the inside of one of the two story barracks in Westgate West. The dwelling which was fortunately unoccupied at the time was badly damaged. The fire burned over an hour before it could be brought under control.

Freshmen Sophomores Juniors Seniors
Are wanted at THE TECH'S
MEMBERSHIP SMOKER

Jobs are open on all staffs
(good jobs and bad)

Talk to us about them in
Faculty Lounge of
Walker Memorial on Thursday
at 5:00 p.m.

Calendar of Events . . . See Page 2

Beaver Barks . . . See Page 3

Beginning with the current season, a new policy regarding admissions to Tech athletic events will go into effect. This policy, established by the Athletic Association, requires that all students present their registration certificate for entry to these events, while guests and non-students will be required to pay full admission.

Admission 60c

The admission price for all events will be 60c per person, including tax. The action will put Technology on an equal basis with neighboring schools, which all charge admission to non-students.

The events falling under this rule include all baseball and basketball games, all major track meets, most swimming meets, and two soccer games against the University of Connecticut and the University of Havana. Tickets may be purchased at the Athletic Association office in Building 18 or at the gate. Tickets will also be on sale at T.C.A.

Beaver Key Handles Tickets

In an agreement between George Lopez, president of the M.I.T.A.A., and Bud Simpson, president of the Beaver Key Society, it was decided that ticket taking will be handled by the latter group, which will receive 20% of the profits for use in greeting and entertaining visiting teams.

Professor W. Gale Appointed Director Of Summer Session

New Office Coordinates All Institute Activities Between Regular Terms

The appointment of Professor Walter H. Gale of the Department of Aeronautical Engineering to the newly created post of Director of the Summer Session at M.I.T. has been announced by President Killian.

A Summer Session Office, now being established under Professor Gale's supervision, will be responsible for coordinating the various activities sponsored by the Institute during the summer months. These include both the regular summer academic schedule, designed primarily to meet the needs of the students, and also special activities of outstanding value to others not associated with M.I.T. during the regular school year.

Cites Former Success

In commenting on the creation of the Summer Sessions Office, Professor Gale cited the Institute's successful experiences with special summer courses and conferences in such varied fields as textiles, ceramics, spectroscopy, and petroleum engineering.

Professor Gale has been a member of the faculty since 1946, when he was appointed Associate Professor of Aeronautical Engineering. He holds S.B. and S.M. degrees from the Institute, awarded in 1929 and 1939, respectively. Now a resident of Wellesley Hills, he was a member of the research staff of the Department of Aeronautical Engineering from 1930 to 1935 and served in the U. S. Navy in Washington, D. C., from 1942 to 1945.

Dr. H. D. Mahoney To Speak In WEEI Forum Tonight

Dr. Thomas H. D. Mahoney will participate tonight in a forum entitled "What are Our Responsibilities Under the Atlantic Defense System?" over station WEEI at 9:30 p.m. The forum, sponsored by the Lowell Institute Broadcasting Council, is part of the series "America at the Crossroads."

Dr. Mahoney is an assistant professor in the English and History Department. He is co-author of the well-known history text "The United States In World History."

Eastgate Applications Exceed Facilities; Multimillion Dollar Project Near Finish

With frame and exterior construction on the Eastgate Apartments still under way, requests for space in the completed building have already exceeded the number of suites planned, officials disclose. The twelve-story structure on the easternmost end of the campus is a joint project of the Institute and the New England Mutual Life Insurance Company.

Old Factory Delays Construction

Overall construction on the apartments is slightly behind schedule due to a delay in procuring the Cosmopolitan factory building which had to be dismantled. Accordingly, the westerly end of the main wing, where the factory was formerly situated, shows the least progress. The rest of the main wing and the east and west wings have nearly reached their full height. There has been no above ground construction on the semi-underground garage to be located in the rear.

Some interior work has already started including door frames and wall work in the east wing. Several of the unique corridors are also in. These occur only on every third floor and provide access to the floors immediately above and below the corridor floor. Such a system insures privacy and thorough ventilation for suites on non-corridor floors.

All apartments have been de-

signed to provide a maximum of sunlight for the occupants, which it is expected will be mostly Institute staff and faculty members. No living room has a northerly exposure and all are situated so as to provide maximum window area and privacy. The projecting concrete slabs now visible will eventually become balconies for every suite regardless of size. These living room extensions will be separated from the main apartment by a floor-to-ceiling glass wall. All kitchen and dining areas are on exterior walls.

Modern Improvements Featured

Additional features of the apartments have been released. These installations will include G.E. garbage disposal units, G.E. electric ranges, and silent mercury light switches. Circulated, filtered warm air will be used for heating. Steam will be furnished by the Cambridge Steam and Electric Company, thus eliminating all boilers and attendant smoke in the building itself. Closets will be fitted with sliding doors, so that all the contents may be reached without swinging a door out into the bedroom.

The total of 261 apartments is divided as follows: 29 three-bedroom apartments, 108 two-bedroom apartments, 95 one-bedroom apartments, 28 studio apartments, and one penthouse apartment. The George A. Fuller Co. is undertaking the construction.

The Tech

VOL. LXIX

TUESDAY, SEPTEMBER 27, 1949

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CALENDAR of EVENTS

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

SEPTEMBER 28 TO OCTOBER 4

MONDAY, SEPTEMBER 26

Nautical Association. Shore School starts and will continue each week day from 5:00 to 6:00 p.m. through October 7. Room 2-390.

WEDNESDAY, SEPTEMBER 28

Pershing Rifles. Smoker and open meeting for all who are interested. Consult posters for location of meeting, 5:00 p.m.

THURSDAY, SEPTEMBER 29

Physics Department. Colloquium: "Research Program of the Physics Department." Dr. John C. Slater. Room 6-120, 4:30 p.m.

FRIDAY, SEPTEMBER 30

Mechanical Engineering Department. Seminar: "The Transient Temperature Distribution in a Wing Flying at Supersonic Speeds." Dr. Joseph Kaye. Room 3-470, 4:00 p.m. Coffee will be served at Headquarters from 3:30 to 4:00 p.m.

American Institute of Chemical Engineers. Student Chapter. Annual fall membership smoker open to those interested in chemical engineering. Refreshments will be served. Tyler Lounge, Walker Memorial, 5:00 p.m.

SATURDAY, OCTOBER 1

Walker Memorial Student Staff. Informal dance. Morris Hall, 8:30 p.m. Tickets \$1.00.

TUESDAY, OCTOBER 4

Acoustics Laboratory. Seminar: "General Hydrodynamic Equations from a Thermodynamic Point of View." Francois Giraud, Room 20-E-121, 4:00 p.m.

Model Railroad Club. Business meeting. Room 20-E-216, 5:00 p.m.

EXHIBITION

The Museum Committee is presenting an exhibition of historic photographs, 1864-1941, from the Collection of the Library of Congress. Lobby of Building 7, through October 14.

IMPORTANT NOTICE

For the convenience of members of the staff and students planning future meetings and events, Mrs. Lutz, Editor of the Calendar, Ext. 2697, will continue to keep a list of coming events with the object of avoiding conflicting dates. The cooperation of all is requested in order that the list may be as complete as possible. Early notification of your intentions will facilitate this service.

CALENDAR OF EVENTS

The Calendar of Events is published weekly on Tuesday in THE TECH, and contains announcements for the following week. It is sent without charge to all members of the staff, heads of D.I.C. projects, as well as to the leaders of various organizations. A separate listing of the Calendar of Events will be mailed to others for one dollar a year, payable in advance at Room 7-204.

Announcements, typewritten and signed, must be in the Office of the Editor, Room 7-204, not later than noon on Thursday, prior to publication date. Material for the Calendar, October 5-11, is due September 29.

Letters to the Editor

Dear Sir,

I was very much heartened, upon examining the September 16 issue of THE TECH, to see that an upper classman — Fred Vanderschmidt — has abandoned the traditional attitude of hostility toward freshmen and has adopted instead a "fatherly, or at least big-brotherly" tone of friendly helpfulness. The several pieces of advice and counsel in Mr. Vanderschmidt's column will surely aid our entering first-year men in becoming painlessly oriented here at Tech.

But I must register a complaint against a slipshod quantitative statement in item 6 which, if allowed to go uncorrected, is apt to leave our freshmen an unfortunate and erroneous impression of the rigorous standards maintained at M.I.T. Mr. Vanderschmidt states that the Coop makes a refund of about 14 percent on all merchandise purchased there "through the ingenious method of charging 14 percent more on everything they sell."

Since 14 percent of k is less

Drama Shop Plans Expansion Program

One of the oldest activities on campus, the M.I.T. Drama Shop, is planning its biggest year since the end of the war.

The officers have formulated plans during the summer and the (Continued on Page 4)

than 14 percent of 1.14k (where k is the original or usual selling price of an article), it is clear that the coop cannot break even if it raises prices only 14 percent. According

to my calculations, the break-even point comes at 16.3 percent boost in retail prices (slide-rule accuracy); and some purists may want to carry the computation further.

I trust you will receive this correction in the constructive spirit in which it is sent. All of us at M.I.T. must aim never to relax our insistence upon careful reasoning and strict accuracy.

Joseph N. Ulman, Jr.
Department of English
and History



The Lowell Institute is getting off to a roaring start this year by presenting a series of lectures titled, "The Fossil Man-Apes of South Africa" (illustrated). Tech coeds cordially invited.

The following item appeared in a recent New York Times.

"SEVEN MORE HANGED IN DRIVE ON VOODOO Pretoria, South Africa—Seven executions today in Basutoland revealed the extent to which... voodoo... has gripped this protectorate.

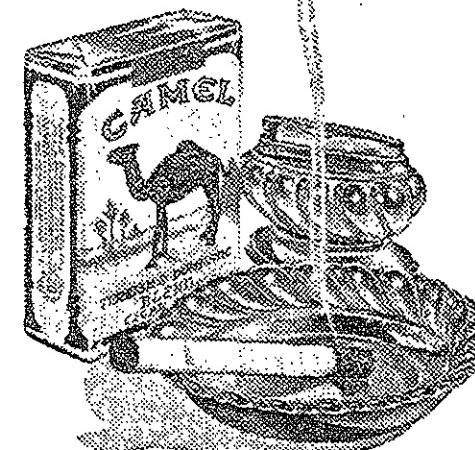
"The participation of chiefs and headmen in ritual murders presents a disconcerting aspect of the situation. In recent years authority of Basuto chiefs has been much reduced until they have become sort of salaried officials liable to

(Continued on Page 3)



WITH SMOKERS WHO KNOW... IT'S

Camels for Mildness!



Yes, Camels are SO MILD that in a coast to coast test of hundreds of men and women who smoked Camels — and only Camels — for 30 consecutive days, noted throat specialists, making weekly examinations, reported

NOT ONE SINGLE CASE OF THROAT IRRITATION DUE TO SMOKING CAMELS!

The Lounge

(Continued from Page 2)

dismissal. It is suggested that the chiefs are resorting to voodoo to restore their original status."

A use for the magazine at last.

Probably you have all gazed once or twice upon the murals gracing the walls of the Walker Dining Hall. One explanation of the front mural, reported to have been advanced by President Killian, is that the central figure over the water fountain represents the Bur-

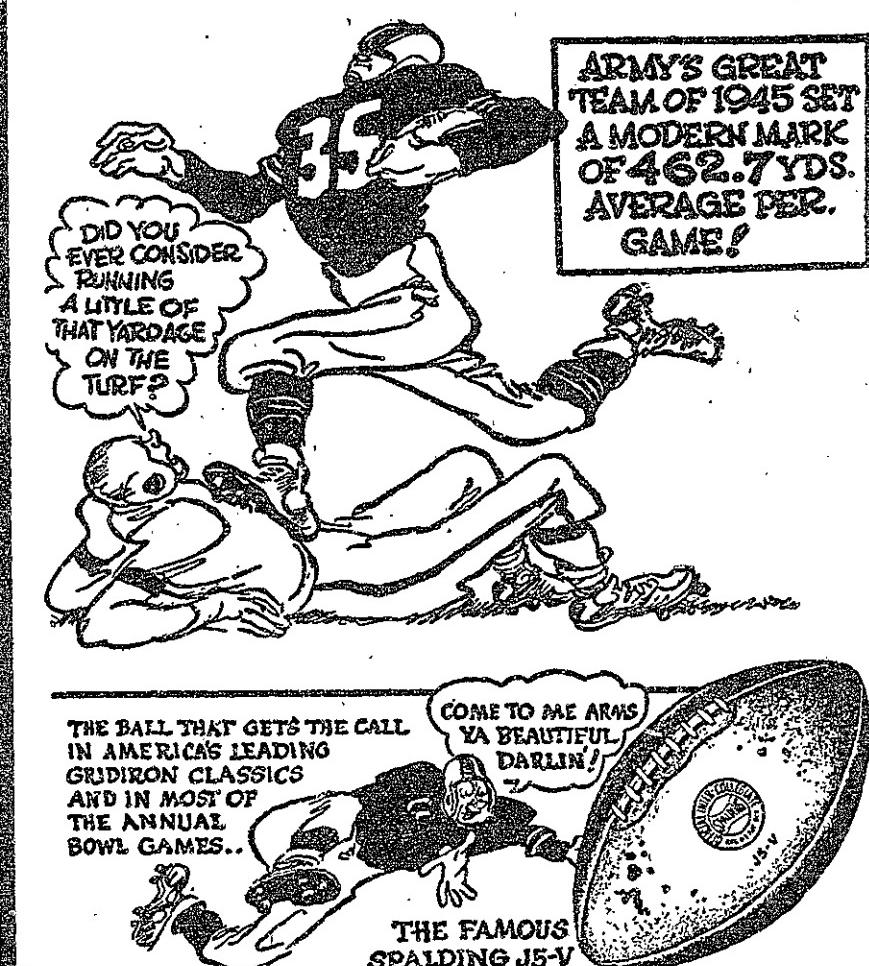
sar and Corporation. The grasping hands and eager faces surrounding the central figures symbolize the faculty and various departments... asking for more money!

From the Temperance "ClipSheet" "Raleigh TIMES, 9/7/49: 'Sunday Morning Piccolo Party Costs Woman Fine of \$100, Costs.' The party of 15 was violating a Sunday ordinance with piccolo playing and drinking of beer and whiskey."

Ahhh, these music lovers. What they won't do for art's sake.

M.C.G.

SPALDING SPORTS SHOW



Spalding sets the pace in sports

ONE NICKLE FARE TO CENTRAL WAR SURPLUS SAVES YOU DOLLARS

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| U. S. ARMY STYLE KHAKI CHINO PANTS \$2.98 FIRST QUALITY—SANFORIZED | U. S. NAVY STYLE GREY CHINO PANTS \$2.98 FIRST QUALITY—SANFORIZED |
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AND AT 4 PROSPECT ST., CENTRAL SQ.

Football Squads Begin Practice

Sophs, Frosh Prepare**For Field Day Battle**

With the Field Day football game only a month away, the sophomore and freshman squads are getting down to the serious business of preparing for the big tussle. Sporting newly-purchased equipment, both squads are holding daily workouts, and several practice games have been arranged.

The freshman squad, under head coach Mark Pearlman and assistant Bill Shenkle, has been fairly impressive in its early workouts. Out of a large initial turnout, the squad is being trimmed to about 35 men. Practice games will be played against Northeastern frosh on October 8, and Wentworth Insti-

tute on October 20. Over in the sophomore camp the situation is not quite as bright. Only about 25 men have turned out to work under Coach Hank Sharp and assistants John Flynn and Joe Regan, and more are needed to fill out the squad. According to Coach Sharp, the sophs are out of condition and need a lot of work. The sophs' practice games will be against Wentworth on October 13 and Tabor Academy on the 22nd.

It is still too early to single out individual performers or compare the strength of the squads. The performance of the teams against Wentworth, whom they will both meet, ought to throw more light on their relative strengths.

AA Starts Program To Train Freshmen

A program to train freshmen for positions in the Athletic Association has been begun. The program will last three weeks, during which time each freshman will receive three hours of training in the three administrative departments of the Athletic Association.

Randall Gibson, Ralph Thornton, and Jack Stewart, managers of the Treasury, Equipment, and Publicity Departments respectively, are in charge of the three phases of the program. Freshmen are still urged to turn out for the AA and can sign up at the Association's new offices in Building 18.

According to the original rules of the contest, an entrant had to pick both pennant winners in order to qualify for the prize. This, of course, will have to be changed in the event of a Yankee-Cardinal victory. Maybe we should consult Professor Wiener to get a mathematical formula for determining the winner. However, we won't worry about it too much. We'll just sit back and bite our fingernails like everyone else while the next few exciting days determine the ultimate winners.

These developments, besides making a lot of "experts" faces red (including our own, although our picks, the Sox and Dodgers, are still in contention), threaten to create confusion in the judging of the contest. For example, if the Yankees and Cards should go on to win their pennants, we shall be faced with the situation of having no one pick the pennant winners correctly. Two entrants picked the Red Sox and Cardinals, while a Dodger-Yankee World Series was predicted by eight entrants.

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Joe Levis Resigns As Fencing Coach

Brahe, Merritt Added To Tech Coaching Staff

The increasing pressure of business and professional interests has necessitated the resignation of Joe Levis, Tech's varsity fencing coach. Mr. Levis graduated from M.I.T. in 1929 with four years of varsity fencing to his credit, and three years later was a member of the U. S. Olympic Fencing team.

Levis built up the Tech fencing team to a status of national recognition, winning the intercollegiate championship one year and always placing high in eastern intercollegiate competition. His successor has not as yet been named.

In the wake of the resignation of Sgt. Ward B. Carroll, the Athletic Association announced the appointment of Master Sgt. James K. Brahe as coach of the rifle and pistol teams. Sgt. Brahe developed two all-American riflemen and coached the freshman rifle team to the national intercollegiate championship.

Roy B. Merritt has been appointed Freshman coach of baseball and wrestling and physical education instructor in the A-1 and A-2 program. He comes to Tech from the Rivers Country Day School where he was Athletic Director and coach of football, basketball, and baseball.

The Beaver Barks

By LEO SARTORI

As the '49-'50 scholastic year begins, we look forward to what we hope will be a more successful year for Tech's athletic teams than the one which preceded it. Moreover, this time the hope seems to be more justified than the usual optimism (wishful thinking might be a better term) with which sport editors generally look at prospects for an ensuing season.

One thing is certain: it's this year or never (or at least not for a long time to come) for most Tech teams to produce a really big season. Very few losses have been incurred through graduation, while next Spring the class of '50 will take with it the nucleus of our basketball, baseball, track, and swimming teams, to mention only a few. So, if anything is to be accomplished, it will have to be this year.

There seems to be a general realization in athletic circles that this is the case. For example, Warren Berg has had his bat and glove men out for fall practice, practically an unprecedented feat, in an all-out effort to produce a winning team next Spring. With all his regulars having an added year of valuable experience under their belts and the addition of several members of last year's fairly successful freshman nine, the chances are fairly good that Berg will get his winning team.

On the basketball front, we note that Technology's hoopsters are scheduled to make an appearance on the Boston Garden court this winter, for the first time in many years. This fact seems to indicate that the AA expects to have a team which will show up to some advantage before the critical Boston public, most of which is probably firmly convinced that all we do at Tech is push slide rules around. At any rate, Ted Heuchling has lost only Jim Madden from last year's five, and although Jim was certainly a key man, his loss should be more than balanced by the addition of several talented operatives from last year's freshman outfit, which boasted the most successful season in history.

Last April, when The Tech ran its baseball contest, the experts were predicting close, two-team pennant races in each major league. It was to be the Braves and the Dodgers neck-and-neck in the National League, while the Red Sox fought it out with Cleveland's Indians for the junior loop championship. The 150-odd entrants to the contest seemed to agree with experts' opinion, as most of the entries consisted of various permutations and combinations of those four clubs in the first two places of each league, and the other twelve teams as also-rans.

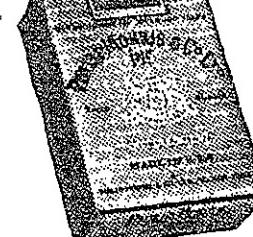
Now, five months later, the season enters its final week with both pennant races about as close as could be imagined, but, strangely enough, the casts seem to have undergone a change. Brooklyn's beloved bums have spent the last few weeks chasing not the Braves, who repose "comfortably" in fourth place, but the St. Louis Cardinals, a team which had been generally consigned to the scrapheap or a home for the aged. And, perhaps even more surprising, the Red Sox have had to put on a tremendous stretch drive to pull even with—Cleveland? No. The New York Yankees, a collection of .260 hitters who have spent the season trooping in and out of the infirmary but somehow have remarkably clung to first place.

These developments, besides making a lot of "experts" faces red (including our own, although our picks, the Sox and Dodgers, are still in contention), threaten to create confusion in the judging of the contest. For example, if the Yankees and Cards should go on to win their pennants, we shall be faced with the situation of having no one pick the pennant winners correctly. Two entrants picked the Red Sox and Cardinals, while a Dodger-Yankee World Series was predicted by eight entrants.

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In short, PHILIP MORRIS is America's Finest Cigarette. Try 'em... find out for yourself.

CALL PHILIP MORRIS

**Catholic Club Dance
Features 350 Girls**

**Friday Evening Affair
Open To All Students**

Three hundred and fifty girls from nearby colleges will attend the Technology Catholic Club's annual Acquaintance Dance, the only affair of its type during the term open to all students. The event will be held on Friday, September 30, in Morss Hall of Walker Memorial Building. Hal Reeves and his orchestra will be on hand to provide music for dancing from 8:30 until midnight.

Roman Chapeksky and his celebrated Vodka Polka Group will provide entertainment during the intermission, at which time games will be played and refreshments served.

Tickets for this dance may be procured in Building 10 between 11 a.m. and 2 p.m. every day this week, or from the committee chairman, John T. Weaver, Room 203, M.I.T. Dorms. The cost of admission is \$1.25, including tax.

**Activity
Briefs**

MATHEMATICS SOCIETY

The M.I.T. Math Society will hold its first meeting of the term today at 5:00 p.m. in Room 4-270. Professor Dirk J. Struik of the Department of Mathematics will speak on the subject "The History of Analytical Geometry." Interested freshmen are especially invited.

BRIDGE CLUB

The M.I.T. Bridge Club will hold a duplicate tournament in the dining hall of the New Dormitory on Saturday, October 1, promptly at 1:30 p.m., and on each succeeding Saturday throughout the term. For bridge players who have never played duplicate before, free in-

struction will be provided. Cash prizes and master points will be awarded to winners and runners-up in each tournament.

PHYSICS SOCIETY

This afternoon at 5:00 p.m. in Room 6-120, the M.I.T. Physics Society will open its season with a meeting featuring a lecture by Professor John C. Slater, head of the Department of Physics. "Opportunities in Non-Nuclear Physics" will be the subject of Professor Slater's talk. All freshmen, former members, and other students interested in Course VII are invited.

PERSHING RIFLES

Company C-8 of the National Society of Pershing Rifles will hold a smoker for all men interested in their organization on Wednesday, September 28. This meeting, to be held in Crafts Lounge, Dormitories, will open at 5:00 p.m. Freshmen are reminded that they are exempt from Military Science if they take an active part in Pershing Rifles. All students interested in Company C-8 are cordially invited to attend.

**Lost Frosh Goods
Found By T.C.A.**

May Be Reclaimed

Frosh returned from Freshman Camp leaving behind them a wake of lost clothing and personal equipment. Most of these articles were collected after the desertion and are now cluttering the offices of the TCA in the basement of Walker Memorial.

TCA working hours are from 9 to 5 daily and owners of lost property may drop around during this time to identify and claim their gear.

The TCA is handling only the articles left behind at Freshman Camp. The Institute's regular Lost and Found Department is under the jurisdiction of the Office of Buildings and Power, located in Building 24.

If you happen to be passing through Building 7 one of these days stop and see the exhibit of photographs from the Library of Congress. Some of them are rather interesting.

Dramashop

(Continued from Page 2)

group is now in full swing for this year's presentations. New production techniques are being adopted which will emphasize original creative design in staging, scenery and costumes. Fresh, interpretive acting and direction will be encouraged.

The scope is being enlarged by a greater variety of plays which allow for a greater number of performers and diversity of characters. The shop this fall will present "Three Men On a Horse," a riotous Broadway comedy.

**VISIT THE FRIENDLY
BARBERS**

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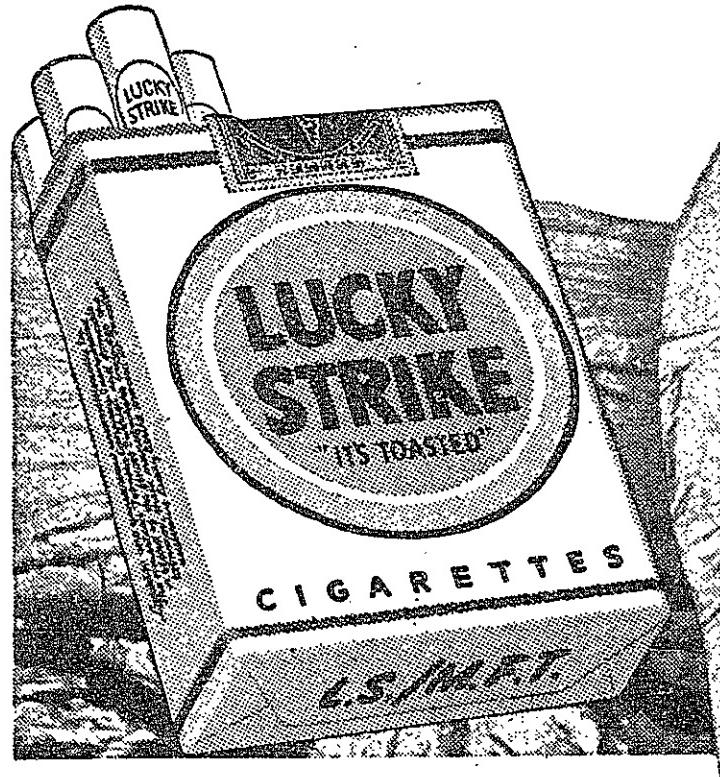
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